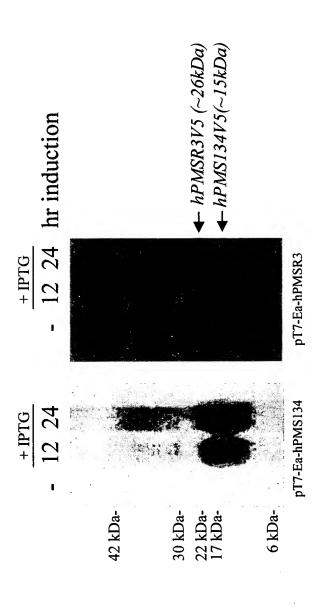


Western blot analysis of IPTG-induced DH10B bacteria expressing the empty vector (lane 1) or hPMS134 dominant negative gene (lane 2) Lysates from bacteria were loaded onto SDS-PAGE gels and probed with an antibody against the human PMS2 N-terminus. FIGURE 1.



Western blot of PMS134V5 and PMSR3V5 in IPTG-treated (+) and untreated (-) samples in BL21 bacteria. Blots were probed with an anti-V5 antibody which is directed to the C-terminal tag of each protein. Figure 2.

PNIS134 Expressing bacteria produce KAN' phenotype

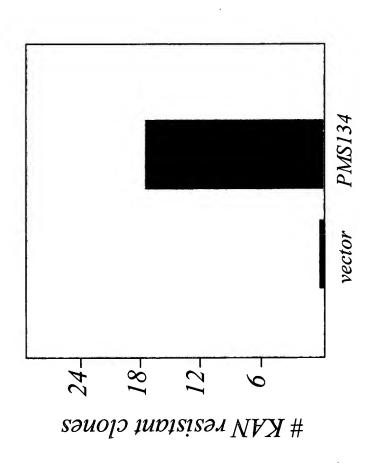


Figure 3. Number of Kanamycin Resistant PMS134 and vector control DH10B clones. IPTG-induced strains were grown and plated onto AMP and KAN plates and grown for an additional 18 hours at 37°C to identify number of KAN resistant clones due to genetic alteration.

PMS134 and PMSR3 expressing bacteria produce KAN' phenotype

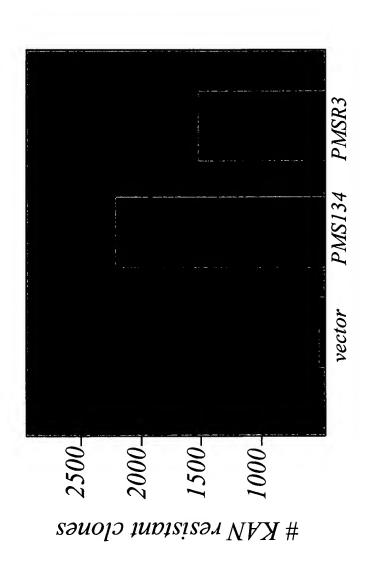


Figure 4. Number of Kanamycin resistant PMS134, PMSR3 and vector control BL21 clones. IPTG-induced strains were grown and plated onto KAN plates and grown for 18 hours at 37°C to identify number of KAN resistant clones due to genetic alteration.

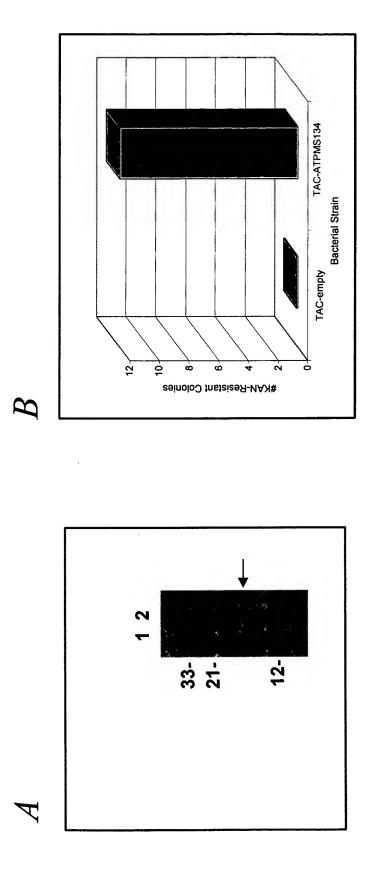
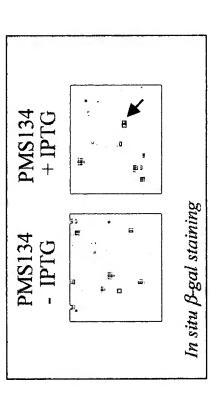


Figure 5. (A) Western blot of steady-state ATPMS134flag in IPTG-treated samples in DH10B bacteria. Lysates from control cells (lane 1) and a (B) Number of Kanamycin Resistant ATPMS134flag and vector control DH10B clones. IPTG-induced strains were grown and plated onto AMP bacterial clone expressing the Arabidopsis thaliana PMS134 truncated protein with a FLAG epitope fused to the C-terminus (ATPMS134flag) (lane 2) were electrophoresed on SDS-PAGE gels. Blots were probed with an anti-FLAG monoclonal antibody directed to the FLAG epitope. and KAN plates and grown for an additional 18 hours at 37°C to identify number of KAN resistant clones due to genetic alteration.



Generation of high recombinant producer BGAL-MOR lines in PMS134 expressing DH5alpha host strains. DH5alpha cells containing pTLACZ and TACLACPMS134 were grown with (+) or without (-) IPTG and plated onto LB-Xgal-agar plates Arrow indicates clones containing pTLACZ and TACLACPMS134 with enhanced β-galactosidase levels in situ. Figure 6.